



MODULE 8

ITS/CVO Mainstreaming & Next Steps



ITS/CVO Mainstreaming & Next Steps (Organizational Infrastructure)

Program Areas

Safety Assurance	Credentials Administration	Electronic Screening	Carrier Operations
<ul style="list-style-type: none">• Access to driver, vehicle, and carrier information on inspections and accidents• Automated inspections and reviews• Onboard safety monitoring	<ul style="list-style-type: none">• Electronic credentialing• Clearinghouses• Interagency data exchange• Interstate data exchange	<ul style="list-style-type: none">• Automated weight and credentials screening• International electronic border clearance	<ul style="list-style-type: none">• Fleet and vehicle management• Traveler information systems• Hazardous Materials incident response

CVISN Architecture (Technical Infrastructure)

Mainstreaming and Deployment Planning (Organizational Infrastructure)

Learning Objectives

Participants will be able to:

- **Describe** ITS/CVO Mainstreaming
- **Identify** Potential ITS/CVO Funding Sources
- **Describe** the ITS/CVO Deployment Strategy
- **Outline** the CVISN Implementation Process
- **Identify** Sources of Technical Assistance

Module Structure

- Mainstreaming
- Government Organization, Roles
- TEA-21 and Funding Sources
- Deployment Strategy
- CVISN Implementation Process
- Sources of Technical Assistance

Notes

ITS/CVO Mainstreaming

Definition

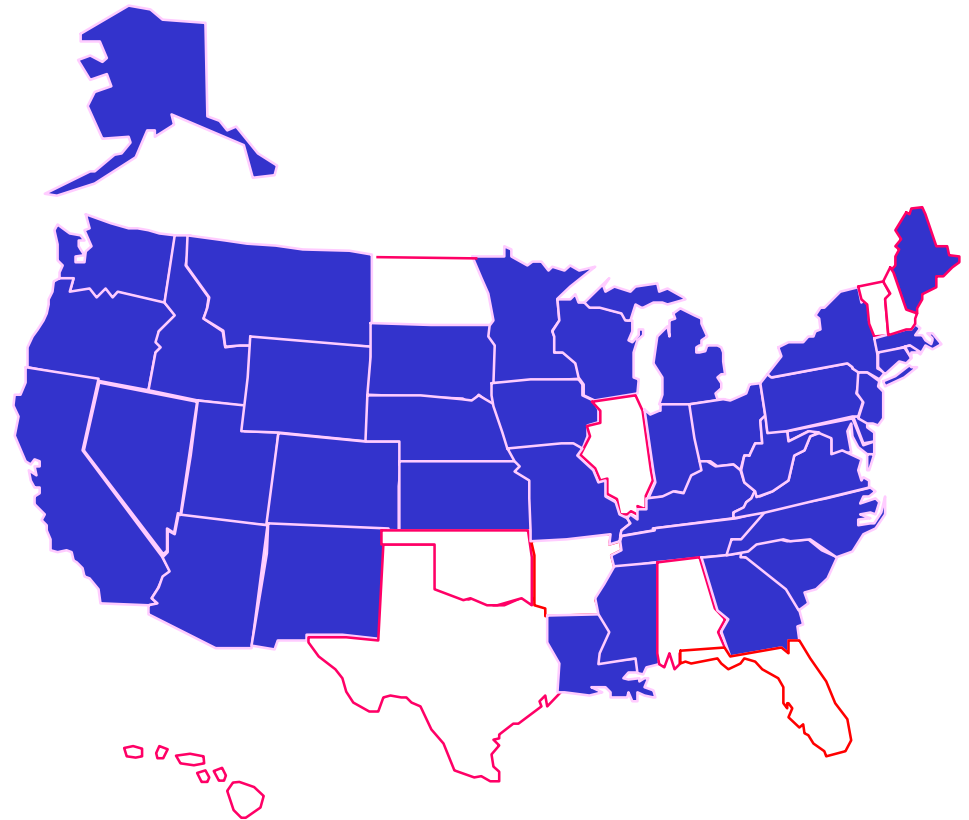
FHWA initiative designed to *foster* and *support* ITS/CVO deployment and to *communicate* the program to all stakeholders.

Program Objective

- **Incorporate ITS/CVO into state & metro transportation planning**
- **Coordinate ITS/CVO activities among agencies and states**
- **Explain the ITS/CVO program to key decision makers**

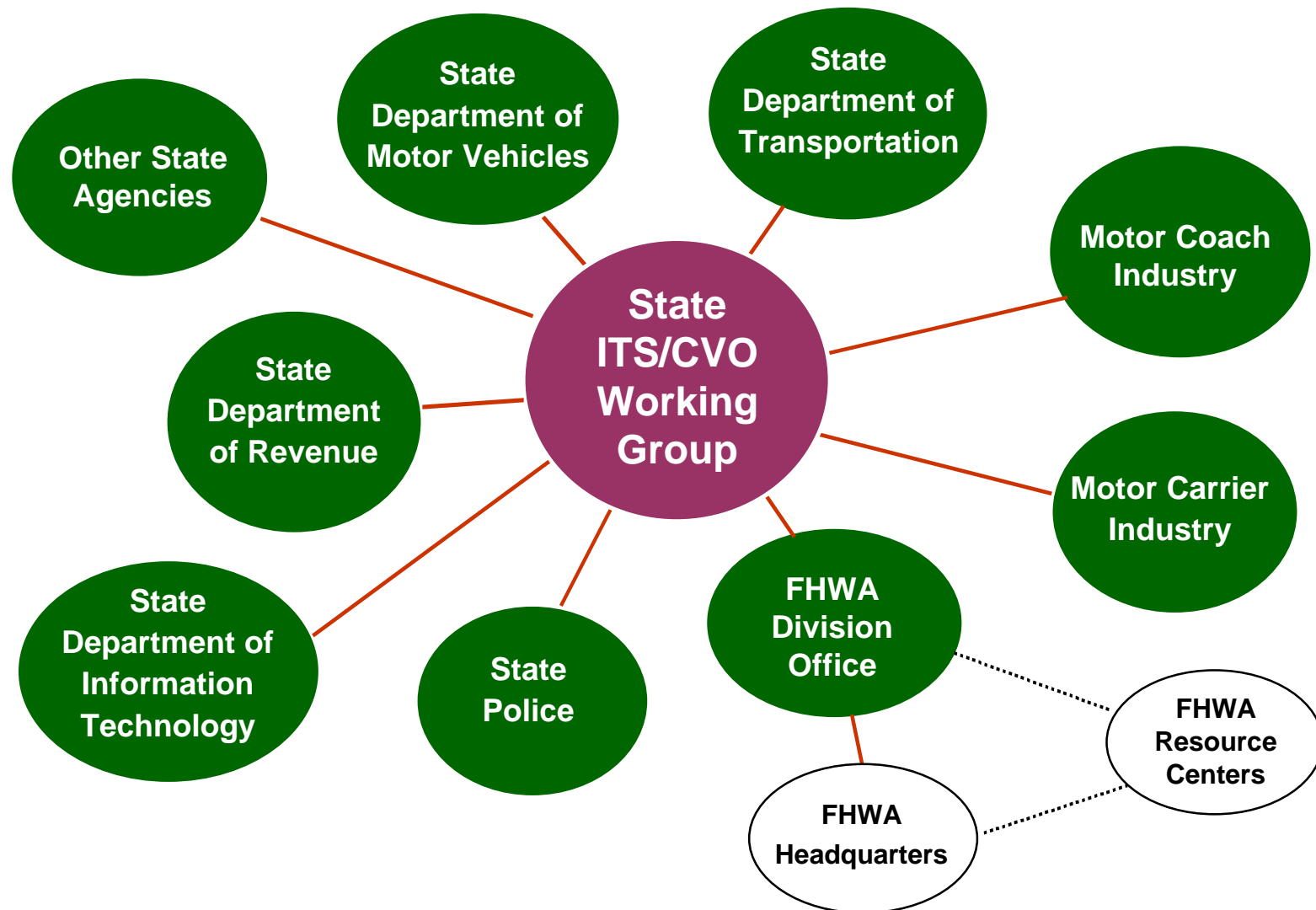
Participating States

Forty states are participating in the ITS/CVO Mainstreaming Initiative



 **Participating in Program**

State ITS/CVO Working Group



Roles & Responsibilities - Government

- **State and Local Governments (Regulatory Agencies)**

- Invest in ITS technology
- Provide data to other states
- Establish info infrastructure
- Change processes to allow electronic commerce and paperless vehicles
- Operate and maintain ITS/CVO systems

- **State and Local Governments (Planning Agencies)**

- Set funding priorities

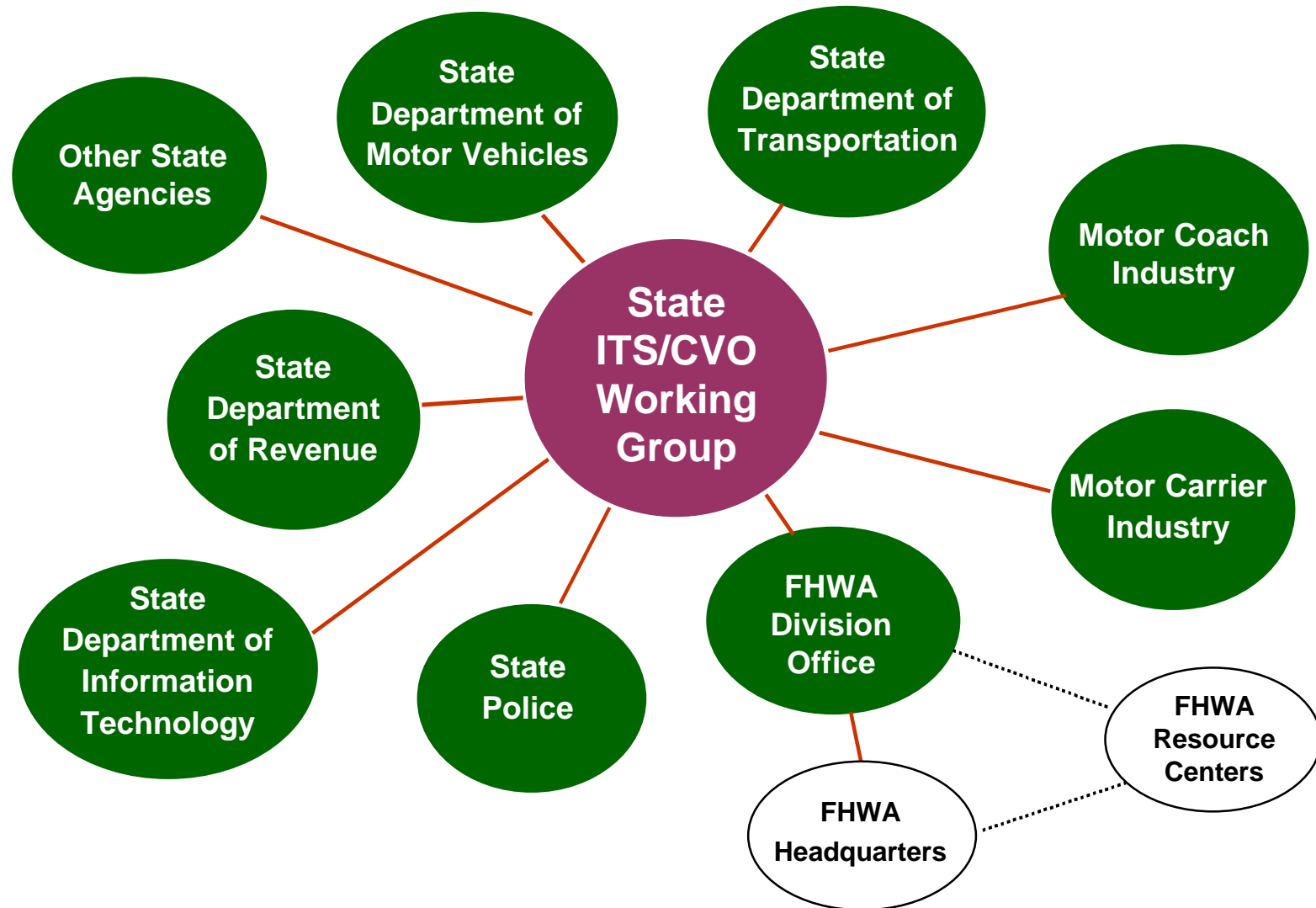
- **DOT/FHWA Headquarters**

- Provide leadership
- Develop architecture
- Develop deployment plan
- Support system integration
- Provide funding
- Expedite ITS/CVO deployment

- **FHWA Division and Resource Centers**

- Coordinate with states
- Participate in state ITS/CVO working groups
- Provide technical assistance to states

State ITS/CVO Working Group



Roles & Responsibilities - Private Organizations

- **Carriers/Drivers**

- Participate in CVISN projects
- Install vehicle transponders
- Invest in other technology when justified by benefit

- **Professional & Trade Associations**

- Organize membership to participate in ITS CVISN activities
- Help to build consensus

- **Operational Tests & Consortiums**

- Demonstrate CVISN concepts
- Prototype/adopt CVISN standards

- **Shippers & Public**

- Support CVISN initiatives

- **Service Providers & Manufacturers**

- Develop technologies
- Provide products & services

CVISN and TEA-21

Nationwide Deployment Goal

“Complete deployment of CVISN in a majority of States by September 30, 2003” (TEA-21)

Architectural Conformance Requirement

All ITS projects funded from the Highway Trust Fund must be consistent with the national architecture and applicable standards *(for more information, see Section 5206 (e) of TEA-21)*

FHWA Strategy

Provide all States the CVO architecture and standards, tools (training and workshops), and guidance to implement CVISN Level 1 functionality

Potential Funding Sources for ITS/CVO Projects

Federal

- ITS R&D funds
- ITS/CVO deployment incentive funding
- MCSAP
- PRISM
- Federal-aid highway programs (NHS, STP, etc.)
- New TEA-21 programs (e.g., Borders and Trade Corridors)
- Other Federal agencies

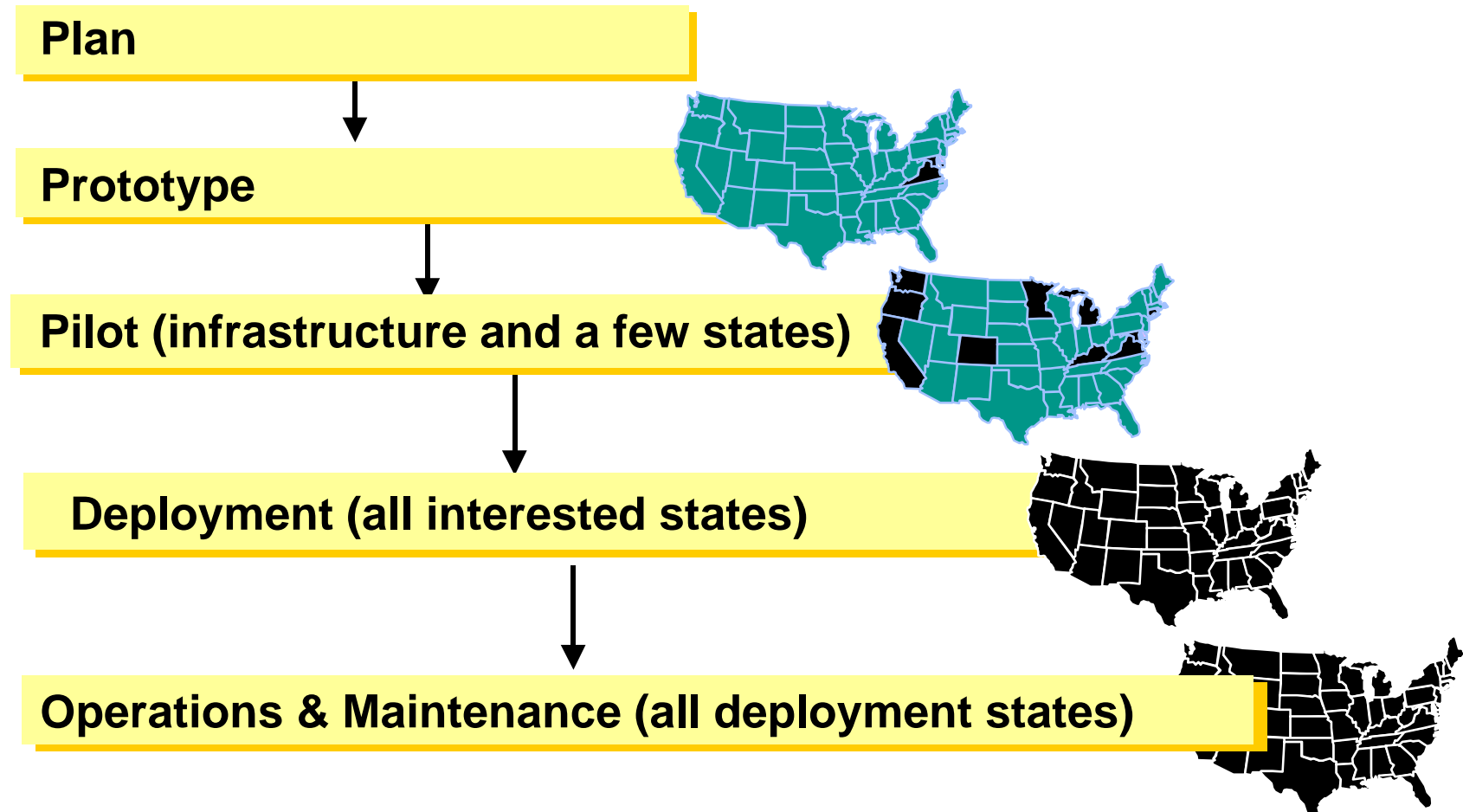
State

- Legislative appropriations
- Agency operating budgets
- Pooling (public/private partnerships)
- Innovative financing

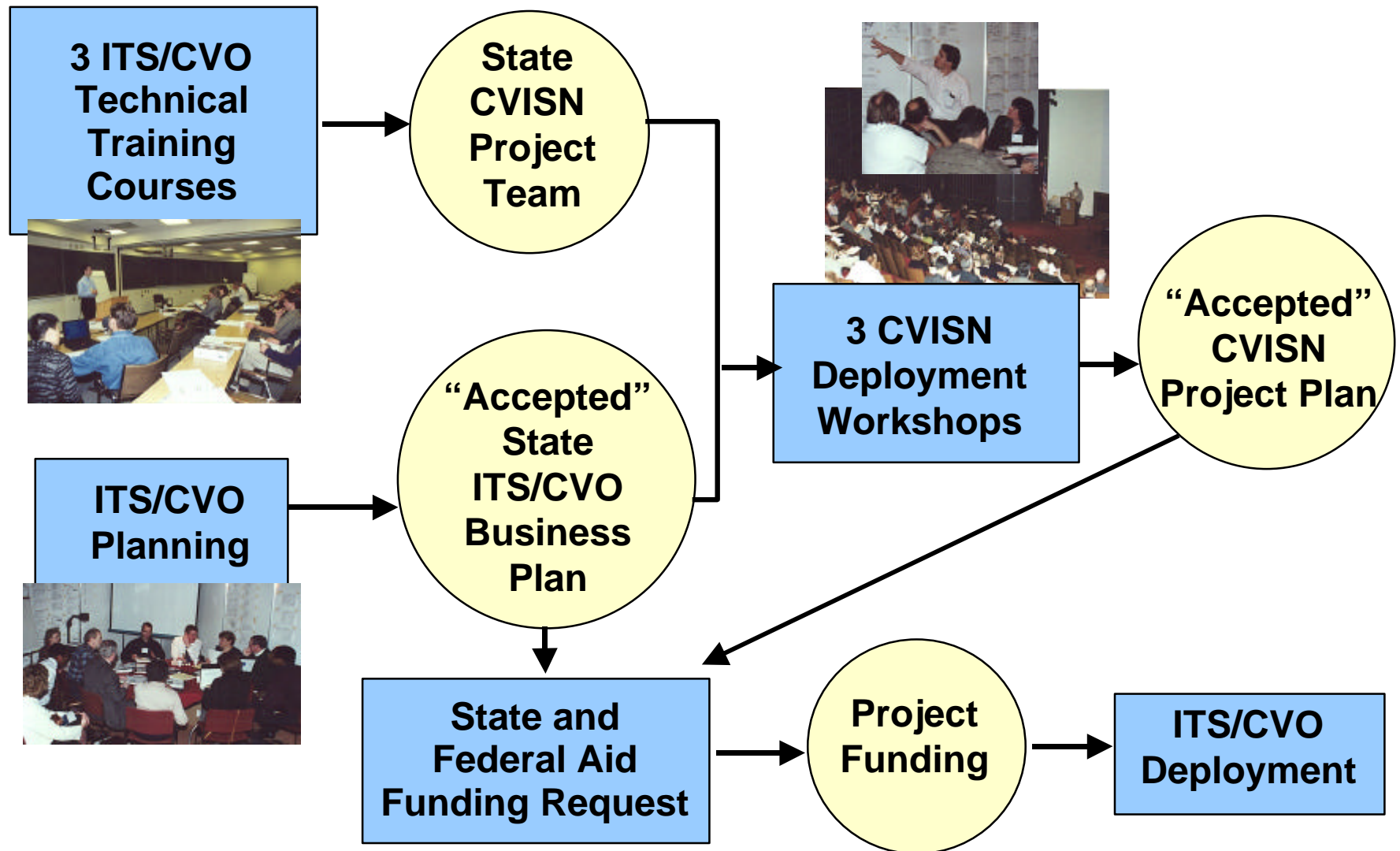
Private Sector

- User fees
- Public/private partnerships

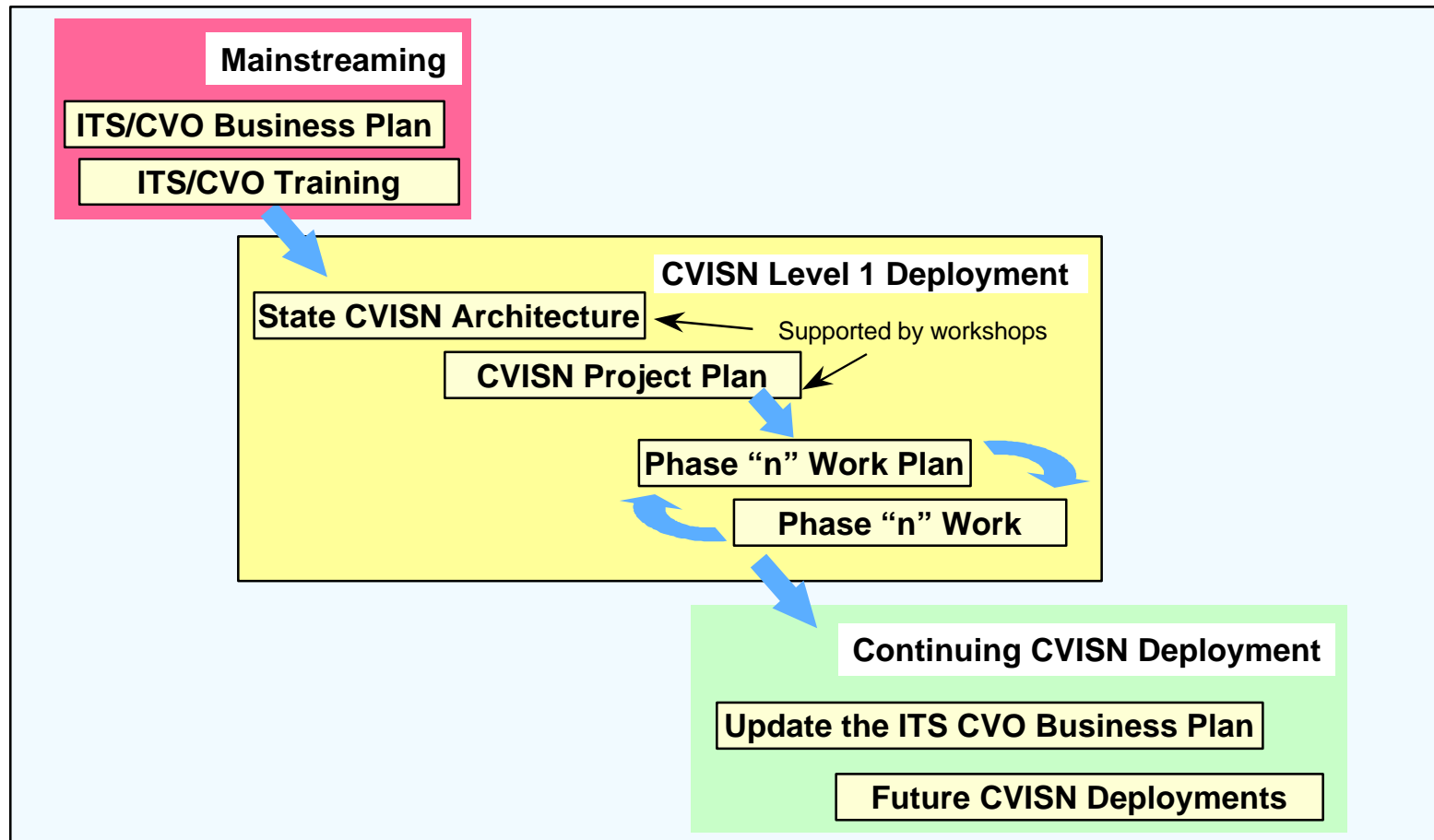
Phased Deployment Strategy



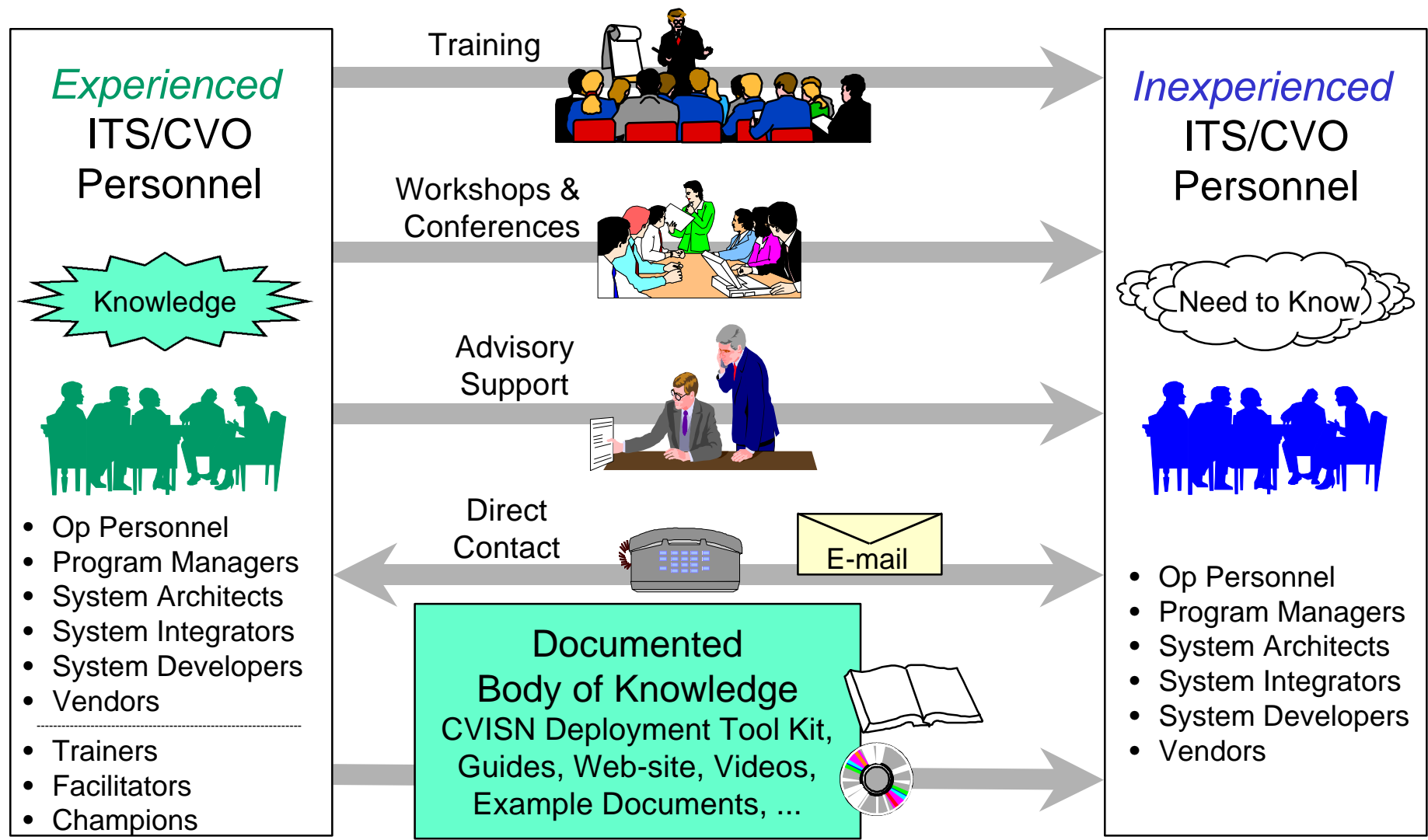
ITS/CVO Deployment Strategy



Each state deploys CVISN capabilities incrementally, starting with comprehensive management & technical planning



An Integrated Strategy for ITS/CVO Deployment Technical Support



Technical Training Course Descriptions

Course Title	Introduction to ITS/CVO	ITS/CVO Technical Project Management for Non-Technical Managers	Understanding ITS/CVO Technology Applications
Duration	1 1/2 days (12 hours)	2 days (16 hours)	2 days (16 hours)
Content	ITS/CVO program's purpose, structure, components, current and future implementation, and technology	Skills development for managing the design and implementation of ITS/CVO technology	Overview of CVISN architecture and technology, standards, and interoperability
Target Audience	Technical or non-technical managers and staff from the states, FHWA (OMC and Federal-aid), motor carrier industry, and other key stakeholders	Program & other non-technical managers and staff from the states and FHWA (OMC and Federal-aid)	Technical & program managers and staff from the states, FHWA (OMC and Federal-aid), motor carrier industry, and other key stakeholders
Required for Work-shops?	Recommended	Required	Required

Technical and Management Guides

Guides - Definition and Contents:

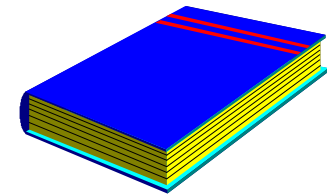
Guides for the CVISN Deployment are a series of concise documents that capture information, knowledge, and lessons learned for use by the model deployment states. The guides are being prepared by JHU/APL for distribution in the summer of 1999.

Management Guides:

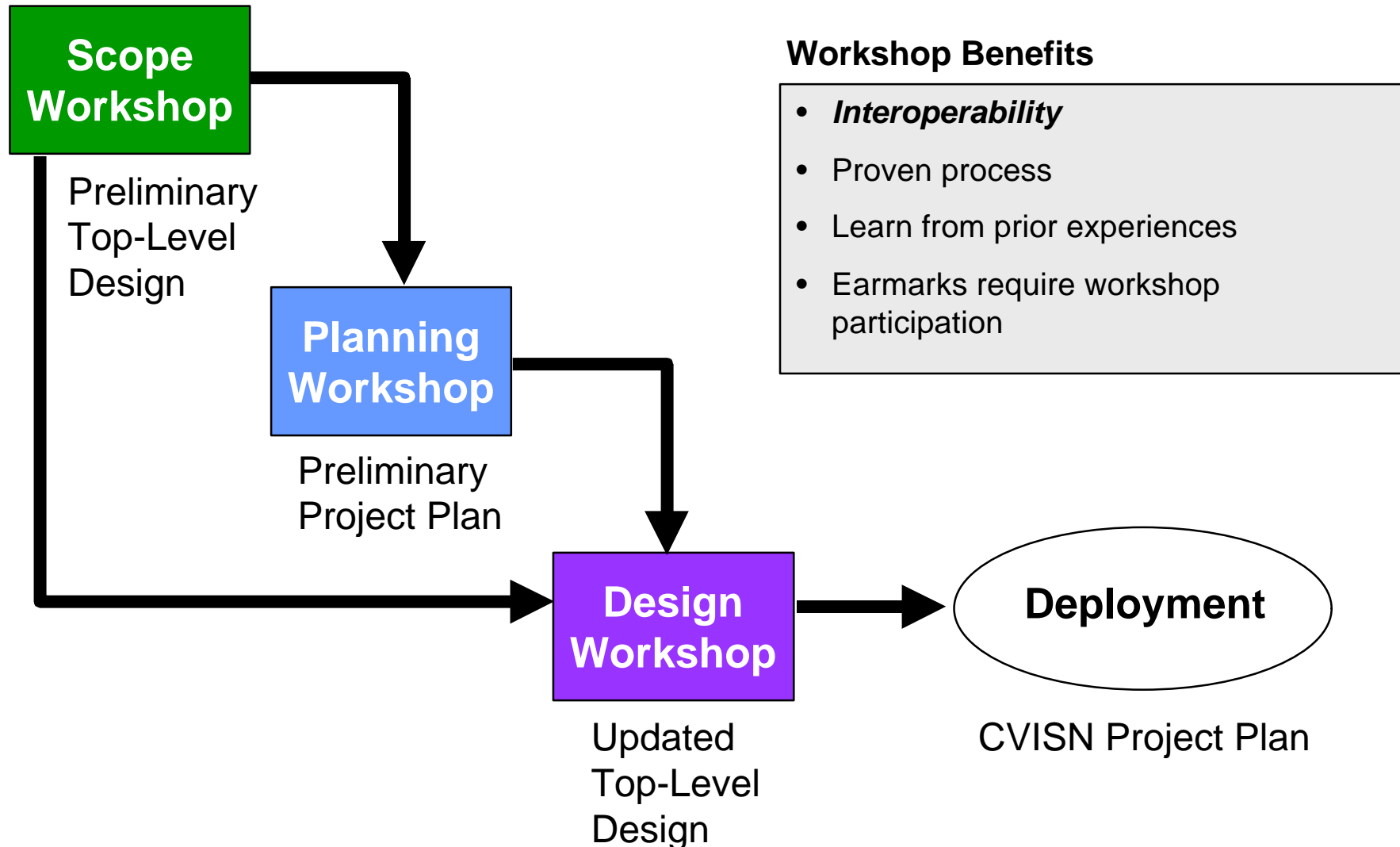
- Introduction to CVISN
- Project Planning
- Phase Planning & Tracking

Technical Guides:

- Top-Level Design
- Integration & Test
- Safety Information Exchange
- Credentials Administration
- Electronic Screening



The Workshop Series



Advisory Support

A variety of technical and administrative experts are available to assist the states in achieving their CVISN goals. These include:

- Experienced personnel from the Model Deployment (Prototype and Pilot) States, especially State Project Leaders and System Architects
- FHWA ITS/CVO personnel from Headquarters, Resource Centers, and Division Offices
- Mainstreaming Champions
- ITS America
- Motor Carrier Associations
- State Associations (AAMVA, CVSA, IRP Inc., IFTA Inc., Others)



ITS/CVO WWW Sites

The ITS/CVO site on the WWW is maintained by JHU/APL to provide a source of current planning and technical information for the CVISN Program, and to distribute program documentation for review, feedback, and use.

FHWA/OMC also maintains an excellent site containing news and reports related to ITS/CVO.



<http://www.jhuapl.edu/cvo/>



<http://www.avalon-ais.com/itscvo/main.htm>

ITS/CVO WWW Sites (cont.)

Other WWW sites which are good sources of planning and background information for ITS/CVO include:

<http://www.fhwa.dot.gov>

- Federal Highway Administration

<http://www.itsa.org>

- ITS America

<http://www.nga.org>

- National Governors' Association

<http://cvoz.uky.edu>

- University of Kentucky Transportation Center

<http://www.westernmainstreaming.org>

- Western States ITS/CVO Mainstreaming Consortium

<http://www.gcmpic.ai.uic.edu/cvogrp/cvo.html>

- CVO Work Group, Gary-Chicago-Milwaukee Corridor

<http://www.ctre.iastate.edu/projects/atech/midwest/>

- Center for Transportation Research and Education, Iowa State University

<http://www.its.fhwa.dot.gov/cyberdocs/welcome.htm>

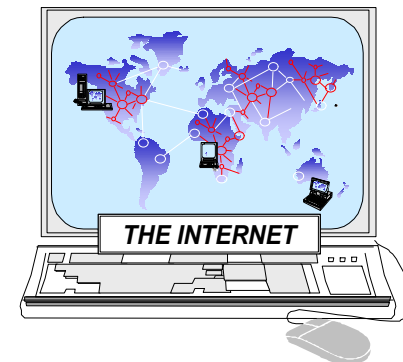
- ITS Electronic Document Library (EDL)

<http://www.its.dot.gov>

- ITS Joint Program Office

<http://www.inawgits.com/jpo/icdn>

- ITS Cooperative Deployment Network (ICDN)



Outreach/Technology Truck

Outreach Methods

- Motor Carrier Industry Awareness Seminars
- ITS/CVO Brochures
- Technology Truck
 - A national demonstration vehicle containing ITS/CVO technologies, classroom-type facilities, and informational kiosks



<http://www.ornl.gov/dp111/index.htm>

Recap & Questions

Module Objectives:

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Any Questions?

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